

#12

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#12



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RAW SEQUENCE LISTING

DATE: 09/18/2002

PATENT APPLICATION: US/10/022,066

TIME: 09:51:39

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\09182002\J022066.raw

pg 6-11

3 <110> APPLICANT: HILDEBRAND, WILLIAM H.
 4 PRILLIMAN, KILEY RAE
 6 <120> TITLE OF INVENTION: METHOD AND APPARATUS FOR THE PRODUCTION OF ANTIGENS AND
 7 USES THEREOF
 9 <130> FILE REFERENCE: 6680.034
 11 <140> CURRENT APPLICATION NUMBER: US 10/022,066
 C--> 12 <141> CURRENT FILING DATE: 2002-09-09
 14 <150> PRIOR APPLICATION NUMBER: 60/256,410
 15 <151> PRIOR FILING DATE: 2000-12-18
 17 <150> PRIOR APPLICATION NUMBER: 60/256,409
 18 <151> PRIOR FILING DATE: 2000-12-18
 20 <150> PRIOR APPLICATION NUMBER: 09/465,321
 21 <151> PRIOR FILING DATE: 1999-12-17
 23 <150> PRIOR APPLICATION NUMBER: 09/974,366
 24 <151> PRIOR FILING DATE: 2001-10-10
 26 <160> NUMBER OF SEQ ID NOS: 638
 28 <170> SOFTWARE: PatentIn Ver. 2.1
 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 9
 32 <212> TYPE: PRT
 33 <213> ORGANISM: Artificial Sequence
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
 37 sequence
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 40 Ala Met Ala Glu Ser Ser Trp Glu Trp
 41 1 5
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 51 1 5
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 55 <211> LENGTH: 9
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 57 <213> ORGANISM: Homo sapiens
 59 <400> SEQUENCE: 3
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 61 1 5
 64 <210> SEQ ID NO: 4
 65 <211> LENGTH: 9

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71   1           5
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81   1           5
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 9
86 <212> TYPE: PRT
87 <213> ORGANISM: Homo sapiens
89 <400> SEQUENCE: 6
90 Ser Glu Glu Asn Cys Ser Leu Glu Trp
91   1           5
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 9
96 <212> TYPE: PRT
97 <213> ORGANISM: Homo sapiens
99 <400> SEQUENCE: 7
100 Ser Glu Glu Asn Cys Tyr Leu Glu Trp
101   1           5
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 37
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
112 <400> SEQUENCE: 8
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119 <213> ORGANISM: Artificial Sequence
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122 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
136 <400> SEQUENCE: 10

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140 <210> SEQ ID NO: 11
141 <211> LENGTH: 25
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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153 <211> LENGTH: 18
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155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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161 tgtaaaacga cggccagt 18
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167 <213> ORGANISM: Artificial Sequence
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185 ccccatcggtg ggcacgttg 20
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189 <211> LENGTH: 22
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193 <220> FEATURE:
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203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
208 <400> SEQUENCE: 16
209 gccaggtcag tgtgatctcc gc 22
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Input Set : A:\sequence listing.txt

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212 <210> SEQ ID NO: 17
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218 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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224 <210> SEQ ID NO: 18
225 <211> LENGTH: 18
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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237 <211> LENGTH: 5
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246   1           5
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252 <213> ORGANISM: Artificial Sequence
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255 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide motif
257 <400> SEQUENCE: 20
258 Ile Val Met Gln
259   1
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269 peptide
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272 Val Gly Tyr Val Asp Asp Thr Gln Phe
273   1           5
276 <210> SEQ ID NO: 22
277 <211> LENGTH: 11
278 <212> TYPE: PRT
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:

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Input Set.: A:\sequence listing.txt

Output Set: N:\CRF4\09182002\J022066.raw

282 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
283 peptide
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286 Ile Ala Val Gly Tyr Val Asp Asp Thr Gln Phe
287 1 5 10
290 <210> SEQ ID NO: 23
291 <211> LENGTH: 9
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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301 1 5
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310 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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315 1 5
318 <210> SEQ ID NO: 25
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329 1 5 10
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338 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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341 <400> SEQUENCE: 26
342 Ala Gln Ala Glu Ser Leu Arg Tyr
343 1 5
346 <210> SEQ ID NO: 27
347 <211> LENGTH: 9
348 <212> TYPE: PRT
349 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/022,066

DATE: 09/18/2002
TIME: 09:51:40

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\09182002\J022066.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:67; Xaa Pos. 4
Seq#:69; Xaa Pos. 2
Seq#:73; Xaa Pos. 5,8
Seq#:74; Xaa Pos. 4,5
Seq#:76; Xaa Pos. 3,5,6,7,8
Seq#:77; Xaa Pos. 4
Seq#:78; Xaa Pos. 1,2
Seq#:79; Xaa Pos. 7
Seq#:107; Xaa Pos. 11
Seq#:111; Xaa Pos. 4,9
Seq#:112; Xaa Pos. 10
Seq#:113; Xaa Pos. 1,10
Seq#:114; Xaa Pos. 8
Seq#:115; Xaa Pos. 9
Seq#:116; Xaa Pos. 1,10
Seq#:117; Xaa Pos. 1,9
Seq#:119; Xaa Pos. 9
Seq#:120; Xaa Pos. 3,4,8
Seq#:122; Xaa Pos. 4,5
Seq#:123; Xaa Pos. 9
Seq#:125; Xaa Pos. 9
Seq#:127; Xaa Pos. 5,6
Seq#:128; Xaa Pos. 1,3,4,5,6,7
Seq#:129; Xaa Pos. 2,4,9
Seq#:130; Xaa Pos. 9
Seq#:131; Xaa Pos. 8
Seq#:132; Xaa Pos. 9
Seq#:133; Xaa Pos. 8,14
Seq#:134; Xaa Pos. 1,2,8
Seq#:136; Xaa Pos. 1,3,4
Seq#:139; Xaa Pos. 6
Seq#:143; Xaa Pos. 3,4,5,6
Seq#:144; Xaa Pos. 1,3
Seq#:148; Xaa Pos. 3
Seq#:149; Xaa Pos. 1,4,5
Seq#:152; Xaa Pos. 3
Seq#:155; Xaa Pos. 6,7,8
Seq#:156; Xaa Pos. 4,6
Seq#:157; Xaa Pos. 5
Seq#:159; Xaa Pos. 6,7,8,9
Seq#:160; Xaa Pos. 4,5
Seq#:162; Xaa Pos. 1
Seq#:164; Xaa Pos. 5
Seq#:165; Xaa Pos. 8

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/022,066DATE: 09/18/2002
TIME: 09:51:40Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\09182002\J022066.raw

Seq#:167; Xaa Pos. 1,4
Seq#:168; Xaa Pos. 4
Seq#:170; Xaa Pos. 5
Seq#:171; Xaa Pos. 6
Seq#:172; Xaa Pos. 5,6,7
Seq#:287; Xaa Pos. 5,6
Seq#:288; Xaa Pos. 1,2,4,5,8
Seq#:289; Xaa Pos. 1,3,4,5
Seq#:290; Xaa Pos. 1,2,3
Seq#:292; Xaa Pos. 5,7,8
Seq#:293; Xaa Pos. 1
Seq#:295; Xaa Pos. 3,6
Seq#:296; Xaa Pos. 1,3,4
Seq#:297; Xaa Pos. 7
Seq#:298; Xaa Pos. 1,2
Seq#:302; Xaa Pos. 4,5
Seq#:303; Xaa Pos. 1,2,3,4
Seq#:304; Xaa Pos. 4,5
Seq#:306; Xaa Pos. 1,2,3,4,5
Seq#:310; Xaa Pos. 1
Seq#:311; Xaa Pos. 3
Seq#:314; Xaa Pos. 3
Seq#:316; Xaa Pos. 3
Seq#:317; Xaa Pos. 6
Seq#:318; Xaa Pos. 7
Seq#:319; Xaa Pos. 7
Seq#:323; Xaa Pos. 7
Seq#:325; Xaa Pos. 5
Seq#:326; Xaa Pos. 1,4,5,6
Seq#:327; Xaa Pos. 8
Seq#:328; Xaa Pos. 1
Seq#:330; Xaa Pos. 2,3,4,5,7
Seq#:331; Xaa Pos. 7
Seq#:333; Xaa Pos. 6,7,8
Seq#:334; Xaa Pos. 1,6,7
Seq#:335; Xaa Pos. 4
Seq#:336; Xaa Pos. 3,4,5
Seq#:337; Xaa Pos. 9
Seq#:338; Xaa Pos. 5,6,7
Seq#:339; Xaa Pos. 7
Seq#:340; Xaa Pos. 5,6,7
Seq#:341; Xaa Pos. 7
Seq#:344; Xaa Pos. 7
Seq#:346; Xaa Pos. 4
Seq#:347; Xaa Pos. 3
Seq#:349; Xaa Pos. 1,6
Seq#:350; Xaa Pos. 4,5,6
Seq#:351; Xaa Pos. 1,3,7
Seq#:353; Xaa Pos. 3

RAW SEQUENCE LISTING ERROR SUMMARY
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TIME: 09:51:40Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\09182002\J022066.raw

Seq#:354; Xaa Pos. 7,8
Seq#:355; Xaa Pos. 1
Seq#:356; Xaa Pos. 2
Seq#:357; Xaa Pos. 1
Seq#:358; Xaa Pos. 4
Seq#:359; Xaa Pos. 5
Seq#:360; Xaa Pos. 5,6,7
Seq#:361; Xaa Pos. 6
Seq#:362; Xaa Pos. 1,2
Seq#:363; Xaa Pos. 5,6,7
Seq#:366; Xaa Pos. 3
Seq#:367; Xaa Pos. 1,3,4
Seq#:370; Xaa Pos. 7
Seq#:371; Xaa Pos. 7,8
Seq#:374; Xaa Pos. 1,3
Seq#:376; Xaa Pos. 3
Seq#:377; Xaa Pos. 3,4,5
Seq#:383; Xaa Pos. 1,3,4
Seq#:386; Xaa Pos. 1,7
Seq#:387; Xaa Pos. 1,2,3,4
Seq#:388; Xaa Pos. 4,5,6
Seq#:389; Xaa Pos. 2
Seq#:393; Xaa Pos. 5,6,7
Seq#:394; Xaa Pos. 7
Seq#:399; Xaa Pos. 9
Seq#:401; Xaa Pos. 3
Seq#:403; Xaa Pos. 4,9
Seq#:406; Xaa Pos. 2,3
Seq#:407; Xaa Pos. 8,9
Seq#:409; Xaa Pos. 2,3,4,6
Seq#:410; Xaa Pos. 1
Seq#:411; Xaa Pos. 5,7,8,9
Seq#:413; Xaa Pos. 4
Seq#:415; Xaa Pos. 4,5,6,8
Seq#:416; Xaa Pos. 7
Seq#:417; Xaa Pos. 1,2,3,4,5
Seq#:419; Xaa Pos. 3,7
Seq#:420; Xaa Pos. 7
Seq#:423; Xaa Pos. 3,4,5
Seq#:425; Xaa Pos. 4
Seq#:426; Xaa Pos. 3,6
Seq#:427; Xaa Pos. 3,4,5,8,9
Seq#:429; Xaa Pos. 3,4,5,7
Seq#:430; Xaa Pos. 1,3,4
Seq#:431; Xaa Pos. 8
Seq#:433; Xaa Pos. 1,4,7,8
Seq#:434; Xaa Pos. 7
Seq#:435; Xaa Pos. 3
Seq#:436; Xaa Pos. 1,2,8

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/022,066DATE: 09/18/2002
TIME: 09:51:40Input Set : A:\sequence listing.txt
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Seq#:439; Xaa Pos. 4
Seq#:440; Xaa Pos. 1
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Seq#:444; Xaa Pos. 3,4,5,6
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Seq#:449; Xaa Pos. 3
Seq#:450; Xaa Pos. 1,4,5
Seq#:453; Xaa Pos. 1,2,3,4,5
Seq#:454; Xaa Pos. 1,3
Seq#:457; Xaa Pos. 3
Seq#:458; Xaa Pos. 3,4
Seq#:461; Xaa Pos. 7
Seq#:462; Xaa Pos. 9
Seq#:463; Xaa Pos. 4,5,6
Seq#:464; Xaa Pos. 1
Seq#:465; Xaa Pos. 1,3,4,5
Seq#:466; Xaa Pos. 3,4,5
Seq#:468; Xaa Pos. 3,4,5
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Seq#:471; Xaa Pos. 4,5
Seq#:474; Xaa Pos. 3,4,5
Seq#:476; Xaa Pos. 4,5
Seq#:477; Xaa Pos. 7
Seq#:479; Xaa Pos. 6,7,8
Seq#:480; Xaa Pos. 4,6
Seq#:481; Xaa Pos. 1,3
Seq#:482; Xaa Pos. 6
Seq#:483; Xaa Pos. 1,3,7
Seq#:487; Xaa Pos. 5
Seq#:489; Xaa Pos. 4,6,7,8
Seq#:490; Xaa Pos. 1
Seq#:491; Xaa Pos. 3,4,7
Seq#:492; Xaa Pos. 4,6
Seq#:493; Xaa Pos. 7
Seq#:494; Xaa Pos. 3,4,5
Seq#:495; Xaa Pos. 4,5,6
Seq#:496; Xaa Pos. 4,5
Seq#:498; Xaa Pos. 1,2,3,4,5,6
Seq#:501; Xaa Pos. 4,5
Seq#:502; Xaa Pos. 6,7,8,9
Seq#:503; Xaa Pos. 6
Seq#:505; Xaa Pos. 4,5
Seq#:508; Xaa Pos. 1
Seq#:509; Xaa Pos. 3,4,5,7
Seq#:510; Xaa Pos. 1
Seq#:512; Xaa Pos. 1,2,3,4
Seq#:513; Xaa Pos. 5
Seq#:514; Xaa Pos. 1,7
Seq#:518; Xaa Pos. 3,4,5,6

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Seq#:520; Xaa Pos. 5
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Seq#:525; Xaa Pos. 6,7
Seq#:527; Xaa Pos. 8
Seq#:530; Xaa Pos. 3
Seq#:533; Xaa Pos. 8
Seq#:534; Xaa Pos. 5,9
Seq#:535; Xaa Pos. 2,8
Seq#:536; Xaa Pos. 4,8
Seq#:537; Xaa Pos. 9
Seq#:538; Xaa Pos. 8
Seq#:539; Xaa Pos. 6,9
Seq#:541; Xaa Pos. 1,9
Seq#:542; Xaa Pos. 4
Seq#:543; Xaa Pos. 9
Seq#:544; Xaa Pos. 4
Seq#:545; Xaa Pos. 9
Seq#:549; Xaa Pos. 8
Seq#:551; Xaa Pos. 10
Seq#:552; Xaa Pos. 1,6,7,9
Seq#:553; Xaa Pos. 3
Seq#:554; Xaa Pos. 2,10
Seq#:555; Xaa Pos. 9
Seq#:556; Xaa Pos. 1,2,3,4,5
Seq#:557; Xaa Pos. 3,4,5
Seq#:558; Xaa Pos. 7
Seq#:559; Xaa Pos. 8
Seq#:560; Xaa Pos. 8
Seq#:561; Xaa Pos. 9
Seq#:562; Xaa Pos. 1,2,3
Seq#:563; Xaa Pos. 6
Seq#:566; Xaa Pos. 10
Seq#:567; Xaa Pos. 8
Seq#:572; Xaa Pos. 1,3,4,10
Seq#:574; Xaa Pos. 11
Seq#:575; Xaa Pos. 3,4,5,6,8,10
Seq#:576; Xaa Pos. 8
Seq#:577; Xaa Pos. 6,7
Seq#:578; Xaa Pos. 9
Seq#:579; Xaa Pos. 1,8
Seq#:580; Xaa Pos. 3
Seq#:581; Xaa Pos. 8
Seq#:582; Xaa Pos. 9
Seq#:584; Xaa Pos. 7,9
Seq#:585; Xaa Pos. 3,7,8
Seq#:586; Xaa Pos. 1,8
Seq#:587; Xaa Pos. 6,8
Seq#:588; Xaa Pos. 5,7

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Seq#:589; Xaa Pos. 8
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Seq#:593; Xaa Pos. 5
Seq#:594; Xaa Pos. 1,2,9
Seq#:595; Xaa Pos. 1,8
Seq#:596; Xaa Pos. 3,4
Seq#:597; Xaa Pos. 1,10
Seq#:598; Xaa Pos. 10
Seq#:599; Xaa Pos. 3,9
Seq#:601; Xaa Pos. 1,3,4,9
Seq#:602; Xaa Pos. 1,2,3,8,9
Seq#:603; Xaa Pos. 6,7
Seq#:604; Xaa Pos. 3,4,5,6
Seq#:605; Xaa Pos. 1,4,9
Seq#:606; Xaa Pos. 1,8,9
Seq#:607; Xaa Pos. 10
Seq#:609; Xaa Pos. 2,8,9
Seq#:611; Xaa Pos. 5
Seq#:612; Xaa Pos. 1,8,9
Seq#:613; Xaa Pos. 9,10
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Seq#:615; Xaa Pos. 2,8,10
Seq#:617; Xaa Pos. 6
Seq#:620; Xaa Pos. 3
Seq#:624; Xaa Pos. 3
Seq#:625; Xaa Pos. 1,4
Seq#:626; Xaa Pos. 4
Seq#:627; Xaa Pos. 5
Seq#:628; Xaa Pos. 6
Seq#:629; Xaa Pos. 5,6,7